APR 2 7 2004 Instead A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Atsushi HAYAMI et al.

Serial No. 10/005,247

Filed: December 7, 2001

For: MODULATION SYSTEM

Art Unit: 2613

Examiner:

Atty Docket: 0102/0190

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FILED PURSUANT TO 37 CFR 1.97 RECEIVED

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

APR 2 8 2004

Technology Center 2600

Sir:

For insuring compliance with the applicants' duty of disclosure under 37 CFR §1.56, the undersigned hereby submits the documents listed on the attached Form PTO-1449 for consideration by the Examiner in charge of the above-identified patent application.

These documents are being submitted (check only one of the next four boxes):

within three months of the filing of the above U.S. national application or of the date of entry of the U.S. national stage in an International Patent Application (no fee is due); (37 CFR §1.97(b))

[XX] before receiving a first Office Action on the merits of the above-identified patent application (no fee is due); (37 CFR §1.97(b))

following receipt of a first Office Action, but before issuance of a Final Office Action or a Notice of Allowance (if this box is checked, one of the last three boxes also must be checked); (37 CFR §1.97(c))

OR

0	following receipt of a Notice of Allowance or a Final Office Action.
	The undersigned hereby requests consideration of this Information
	Disclosure Statement after the mailing the Final Office Action or
	Notice of Allowance by filing this Information Disclosure Statement
	under 37 CFR §1.97(d)

- The Commissioner is authorized to debit \$180.00 for payment of the fee set forth in 37 CFR § 1.17(p). (37 CFR §1.97(d)(2))
- The undersigned certifies that each item of this information is being [XX] submitted within three months of the date it was cited by the European Patent Office in a counterpart application. (37 CFR §1.97(e)(1))
- The undersigned certifies that, after making reasonable inquiry, he/she has no knowledge that any item of this information was cited by a foreign patent office in a counterpart application or was known more than three months prior to this submission. (37 CFR §1.97(e)(2))

The Commissioner is hereby authorized to charge payment of any deficiency in the above fee(s) or to charge any additional fees required under 37 CFR § 1.16 or 1.17 or credit any overpayment to Deposit Account No. 50-0501. A duplicate copy of this authorization is attached for the Finance Branch.

Respectfully submitted,

Louis Woo, Reg. No. 31,730 Law Offices of Louis Woo

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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty Docket 0102/0190 Serial No. 10/005,247

Applicant

Atsushi HAYAMI et al.

Filing Date

Group Art Unit

December 7, 2001 **U.S. PATENT DOCUMENTS** Sub-Filing Examiner Document Name Class Date Number Class Date Initial AA AB AC AD RECEIVED AE APR 2 8 2004 AF Technology Center 2600 AG AH ΑI AJ ΑK FOREIGN PATENT DOCUMENTS Sub-Trans-Document Class Country Date Number Class lation AL AM ΑN AO AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) D.J. Lynch, "The Suitability of Various Line Coding Techniques for the Simultaneous Transmission of Data with Voice over Copper Telephone lines", December 1997, pages 12-59, xp2213739 AR AS AT **Date Considered** Examiner EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609.